



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
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LAKE MICHIGAN

LMZ644	Pt Washington To North Pt Lt Wi								
.7 SE Port Washington	01	1910CST			0	0			Marine Tstm Wind (MG36)
LMZ644	Pt Washington To North Pt Lt Wi								
2 NNW North Point Lth	02	1620CST			0	0			Marine Hail (0.88)
LMZ646	Wind Pt Lt Wi To Winthrop Hbr II								
4 NE Racine to Racine	23	1348CST			0	0			Marine Hail (0.75)
LMZ645	North Pt Lt To Wind Pt Wi								
Milwaukee Harbor	23	1457CST			0	0			Marine Hail (0.75)
A line of thunderstorms crossed southern Wisconsin and moved out over Lake Michigan during the early afternoon hours									
LMZ646	Wind Pt Lt Wi To Winthrop Hbr II								
2.2 ESE Kenosha	24	0847CST			0	0			Marine Hail (0.75)
LMZ645	North Pt Lt To Wind Pt Wi								
Milwaukee Harbor	25	0700CST			0	0			Marine Tstm Wind (MG35)
A low pressure system tracked across southern Wisconsin and generated thunderstorms that moved over Lake Michigan during the morning hours.									
LMZ646	Wind Pt Lt Wi To Winthrop Hbr II								
3 E Racine	29	0630CST			0	0			Waterspout
A brief waterspout was observed by many people. It formed along a shear line set up by a land breeze. Towering cumulus clouds were noted along with some rain showers in the vicinity, but there were no thunderstorms									
LMZ646	Wind Pt Lt Wi To Winthrop Hbr II								
2.5 ESE Racine	29	0645CST			0	0			Waterspout
A brief waterspout was observed by many people. It formed along a shear line set up by a land breeze. Towering cumulus clouds were noted along with some rain showers in the vicinity, but there were no thunderstorms									
LMZ646	Wind Pt Lt Wi To Winthrop Hbr II								
2 SE Racine	29	0715CST			0	0			Waterspout
A brief waterspout was observed by many people. It formed along a shear line set up by a land breeze. Towering cumulus clouds were noted along with some rain showers in the vicinity, but there were no thunderstorms									
LMZ646	Wind Pt Lt Wi To Winthrop Hbr II								
3 E Kenosha	29	0720CST			0	0			Waterspout
A brief waterspout was observed by many people. It formed along a shear line set up by a land breeze. Towering cumulus clouds were noted along with some rain showers in the vicinity, but there were no thunderstorms									

WISCONSIN, Southeast

WIZ051>052-056>060-062>072	Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha								
	01 0000CST				2	0			Heat
	02 1100CST								
This heat event for August 1st-2nd is a continuation of the same heat event that started on the evening of July 30th. Ultimately, this stretch of "heat advisory" conditions resulted in two directly-related heat deaths in Milwaukee County where the urban heat-island effect is enhanced. Air temperatures only fell into the mid 70s across south-central Wisconsin and lower 80s in the Milwaukee Metro area during the early-morning of August 1st. Afternoon air temperatures soared into the 95 to 100 degree range. With dew points in the low to mid-70s, heat index values only dropped into the lower 80s during the morning of the 1st, and peaked in the 105 to 110 degree range across south-central and southeast Wisconsin during the afternoon of August 1st. The oppressive conditions continued during the overnight hours of August 1st with low temperatures around 80 degrees before a cold front swept through during the afternoon, ending the heat wave. On August 2nd, a 67-year-old male died due to high temperatures in his West Allis									



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WISCONSIN, Southeast

(Milwaukee Co) residence. Likewise on August 2nd, a 41-year-old male died in his residence due to elevated levels of heat. For information about the July portion of this heat wave, consult the July 2006 StormData publication. M67PH, M41PH

Washington County

Jackson to 5 NE Jackson	01	1840CST 1853CST			0	0			Thunderstorm Wind (MG51)
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Washington County

Jackson to 5 NE Jackson	01	1850CST 1853CST			0	0			Hail(0.75)
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Washington County

2 E Slinger to 3 N Jackson	01	1850CST			0	0			Thunderstorm Wind (EG50)
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Trees down.

Ozaukee County

5 WSW Saukville	01	1858CST			0	0			Thunderstorm Wind (EG50)
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Trees down.

Ozaukee County

3 NW Cedarburg	01	1945CST			0	0			Thunderstorm Wind (EG56)
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Trees down.

Isolated thunderstorms developed during the early evening hours in response to moderate instability and jet dynamics. These storms pulsed to severe levels and produced a few damaging wind reports and a large hail report

Washington County

West Bend to 6 NE Jackson	02	1440CST 1450CST			0	0	5K		Thunderstorm Wind (EG50)
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Trees down due to powerful thunderstorm winds. One large tree branch damaged three parked vehicles in West Bend

Ozaukee County

3 WNW Saukville to Saukville	02	1455CST 1500CST			0	0	15K		Thunderstorm Wind (EG50)
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Trees and power-poles down.

Washington County

5 ESE Jackson	02	1510CST			0	0			Thunderstorm Wind (EG50)
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Trees down.

Ozaukee County

Cedarburg	02	1525CST			0	0	75K		Lightning
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Lightning struck a downtown Cedarburg building's chimney. The collapsed chimney then tore a hole in the roof, allowing rain water to run into the building and damage some contents.

Ozaukee County

Thiensville	02	1530CST			0	0			Thunderstorm Wind (EG50)
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Tree branches down.

Milwaukee County

Shorewood	02	1620CST			0	0			Hail(0.88)
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Walworth County

Delavan	02	1710CST			0	0	50K		Lightning
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Lightning struck a church steeple, setting it on fire. The remainder of the church building was saved.

Waukesha County

2 ESE Muskego	02	1730CST			0	0			Thunderstorm Wind (EG50)
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Trees down.

Dodge County

2 S Juneau	02	1910CST			0	0			Funnel Cloud
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A brief funnel cloud was witnessed at county roads A and W.



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WISCONSIN, Southeast

Scattered thunderstorms developed in south-central Wisconsin along a cold front during the early afternoon hours and pushed into southeast Wisconsin during the late afternoon hours. Some storms became severe producing damaging winds to around 60 mph, large hail, and vivid lightning.

Racine County								
Wind Pt	23	1348CST			0	0		Hail(0.75)
Milwaukee County								
4 SE Milwaukee	23	1452CST			0	0		Hail(0.75)
Sauk County								
2 SW La Valle	23	1855CST			0	0		Hail(0.88)
Sauk County								
3 NW La Valle	23	1855CST			0	0		Hail(0.75)
Sauk County								
Loganville	23	1935CST			0	0		Hail(0.75)
Sauk County								
2 SSE Leland	23	2002CST	0.1	20	0	0	5K	Tornado (F0)
A brief F0 tornado spun up 2.0 miles SSE of Leland. This tornado, seen by a team of advanced severe weather spotters who were chasing the associated supercell, damaged only some vegetation.								
Sauk County								
3 W La Valle to La Valle	23	2004CST 2005CST			0	0		Hail(1.00)
Sauk County								
3 SSE Loganville	23	2031CST			0	0		Hail(1.75)
Marquette County								
3 N Montello	23	2050CST			0	0		Hail(0.75)
Sauk County								
La Valle	23	2128CST 2135CST			0	0		Hail(1.00)
Sauk County								
2 W Ironton	23	2130CST			0	0		Hail(1.00)
Dane County								
1 NE Middleton	23	2146CST			0	0		Hail(1.00)
Dodge County								
Horicon	23	2150CST			0	0		Hail(0.75)
Sauk County								
Leland	23	2158CST			0	0		Hail(1.00)
Dane County								
Black Earth	23	2226CST			0	0		Hail(0.88)
Dane County								
Cross Plains	23	2235CST			0	0		Hail(0.75)
Dane County								
5 ENE Cottage Grove	23	2245CST			0	0		Hail(0.75)
Rock County								
5 ESE Evansville	23	2336CST			0	0		Hail(0.75)
Marquette County								
1 S Oxford	23	2348CST			0	0		Hail(1.75)
Columbia County								
3 N Portage	24	0000CST			0	0	1K	Heavy Rain



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					Killed	Injured	Property Crops	

WISCONSIN, Southeast

0020CST

Persistent heavy rain caused some basement flooding 3 miles north of Portage.

Columbia County
3 NNE Portage to
4.4 ENE Portage

24	0005CST 0015CST		0	0		100K	Hail(0.75)
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About 150 acres of corn crop were damaged in an area near STH 33, about 4 miles west of STH 22.

Columbia County
3 NNE Portage

24	0012CST		0	0			Thunderstorm Wind (EG52)
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Trees down.

Columbia County
Pardeeville

24	0020CST		0	0			Hail(0.75)
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Dane County
6 SW Middleton

24	0022CST		0	0			Hail(0.75)
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Marquette County
3 NE Packwaukee

24	0030CST		0	0			Hail(1.00)
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Waukesha County
2 N Big Bend

24	0034CST		0	0			Hail(1.00)
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Dane County
Cottage Grove

24	0035CST 0045CST		0	0	2M		Hail(1.75)
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Large hail damage many homes and vehicles, resulting in an estimated 200 claims. Some of the homes that sustained hail damage were just recently repaired due to damage inflicted by the April 13, 2006, hailstorm that dumped hail up to 3 to 4 inches in diameter on a path west to east across Dane County.

Dane County
1 W Madison

24	0035CST		0	0			Hail(0.75)
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Dane County
4 E Madison

24	0036CST		0	0			Hail(0.75)
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Dane County
Cottage Grove

24	0040CST		0	0	10K		Thunderstorm Wind (EG56)
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Large trees down. One tree landed on a home.

Columbia County
4 S Cambria

24	0043CST		0	0			Hail(1.00)
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Jefferson County
3 SW Lake Mills

24	0104CST		0	0			Hail(0.75)
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Dane County
4 E Fitchburg

24	0105CST 0110CST		0	0			Thunderstorm Wind (EG56)
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Trees reported down.

Dodge County
2 NW Beaver Dam

24	0105CST		0	0			Thunderstorm Wind (EG56)
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Trees down.

Dane County
1.6 SE Albion

24	0110CST		0	0			Hail(1.00)
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Columbia County
4 NNE Rio

24	0120CST		0	0			Hail(1.00)
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Rock County
7 NW Janesville

24	0130CST		0	0			Hail(1.75)
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					Killed	Injured	Property	Crops	
<u>WISCONSIN, Southeast</u>									
Sauk County									
Prairie Du Sac	24	0204CST			0	0			Hail(1.50)
Dane County									
2 NNW Cross Plains	24	0218CST			0	0			Hail(0.75)
Dane County									
5 SW Madison	24	0240CST			0	0			Hail(1.00)
Dane County									
Middleton	24	0240CST			0	0			Thunderstorm Wind (EG56)
		Trees down.							
Rock County									
8 NE Milton	24	0241CST			0	0			Hail(0.75)
Jefferson County									
4 ESE Waterloo	24	0315CST			0	0			Hail(0.75)
Sauk County									
2 NNW La Valle	24	0315CST			0	0			Hail(1.00)
Rock County									
1 W Footville to 4 W Beloit	24	0321CST 0335CST			0	0			Hail(2.50)
		Large hail ranging from 1.00 inch to 2.50 inches fell from 1 mile west of Footville to 4 miles west of Beloit.							
Rock County									
Beloit	24	0330CST 0335CST			0	0	5K		Thunderstorm Wind (EG56)
		Trees down. One fell onto a home, resulting in minor damage.							
Sauk County									
Baraboo	24	0354CST			0	0			Hail(1.00)
Columbia County									
7 SW Okee	24	0410CST			0	0			Hail(1.25)
Dane County									
2 NE Roxbury to 3 SE Waunakee	24	0413CST 0423CST			0	0			Hail(1.75)
Jefferson County									
4 ENE Johnson Creek	24	0438CST			0	0			Thunderstorm Wind (EG52)
		Trees down.							
Dane County									
3 ENE Madison	24	0443CST			0	0			Hail(0.75)
Kenosha County									
Kenosha	24	0847CST			0	0			Hail(0.75)
Kenosha County									
3 SW Pleasant Prairie	24	0850CST			0	0			Hail(0.88)
Kenosha County									
Somers to Pleasant Prairie	24	1100CST			0	0			Heavy Rain
		Minor street flooding resulted after 1 inch of rain fell on top of saturated ground.							
Kenosha County									
Kenosha	24	1115CST			0	0	14M		Lightning
		Several lightning strikes to several buildings caused structural fires and power outages. A large apartment building, known as St. Catherine Commons, was struck by lightning. The resultant fire severely damaged the building, displacing about 125 residents							



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<u>WISCONSIN, Southeast</u>									
Kenosha County									
Pleasant Prairie	24	1120CST			0	0	150K		Lightning
Several lightning strikes to several buildings caused structural fires and power outages									
Dane County									
4 WSW Madison to Cottage Grove	24	1200CST 1400CST			0	0			Heavy Rain
More heavy rain of 1 to 2 inches on already saturated ground caused some minor urban flooding from around the Madison area to Cottage Grove. One car was stalled after trying to drive through flood waters.									
Iowa County									
Highland	24	1215CST			0	0			Thunderstorm Wind (EG50)
Garbage cans were reported being airborne with large broken tree limbs.									
Iowa County									
3 N Rewey	24	1235CST			0	0			Thunderstorm Wind (EG50)
Tree limbs down.									
Dane County									
Cottage Grove	24	1300CST			0	0	250K		Lightning
A home was struck by a lightning bolt, and the resultant fire gutted the home.									
Dane County									
1 W Marshall	24	1300CST 1400CST			0	0	60K		Lightning
Twelve cows were killed by a lightning strike.									
Lafayette County									
4.2 N Argyle	24	1300CST			0	0			Thunderstorm Wind (EG52)
Trees down.									
Waukesha County									
Muskego	24	1315CST			0	1			Lightning
A women was struck by lightning in a parking lot of a business. She was treated at a local hospital and released.									
Green County									
7 W Monticello	24	1324CST			0	0			Hail(0.75)
Walworth County									
Lake Geneva	24	1330CST			0	0	10K		Lightning
A home's roof antenna was struck by lightning, resulting in a minor roof fire.									
Kenosha County									
6 NNE Paddock Lake	24	1500CST 1700CST			0	0	10K		Flash Flood
Torrential rainfall from thunderstorms caused flooding of roads and basements.									
Racine County									
2 E Burlington to 2 W Union Grove	24	1500CST 1700CST			0	0	20K		Flash Flood
Persistent thunderstorms producing torrential rain caused flooding from 2 miles east of Burlington to 2 miles west of Union Grove. The water closed several roads and caused some basement flooding. Radar estimated 4 to 5 inches of rainfall in this area and 3.71 inches of rain was reported in Burlington.									

A stagnant weather pattern on August 23rd and 24th resulted in waves of heavy rain and severe thunderstorms. A warm front pushed north during the afternoon of August 23rd. A very unstable airmass with moderate shear caused thunderstorms to break out during the afternoon and continue through most of the overnight as a warm front moved north through the area. Very large hail was the primary hazard with some of the supercell thunderstorms, although there were several reports of wind damage, one tornado 2 miles south-southeast of Leland, and torrential downpours with localized flooding. Incredibly, three separate supercells tracked southeast through Sauk County almost along the same path. Each supercell had a rotating wall cloud at its base, but only one supercell managed to spin up a brief tornado. After a brief respite of only 3 hours during the morning hours of August 24th, more



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WISCONSIN, Southeast

storms developed during the late morning and afternoon hours. More heavy rain, large hail, damaging winds, and vivid lightning resulted from these storms. Urban flooding in Dane and Kenosha counties caused a few hundred thousand dollars in structural damage. Some two-day rainfall totals across Dane County include 5.70 inches in Oregon, 5.38 inches in Cottage Grove, 3.26 inches in Middleton, 2.77 inches at Beloit College, and 2.73 inches at Madison Truax Field. Roughly 12,000 customers lost electrical power due to downed power lines and lightning strikes.

Lafayette County 5 E Shullsburg	25	0435CST			0	0			Thunderstorm Wind (EG52)
Trees down.									

Sauk County 3 SW Loganville	25	0827CST			0	0			Hail(1.25)
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Sauk County 3 W Prairie Du Sac	25	0900CST			0	0			Hail(1.00)
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Dane County Roxbury	25	0915CST			0	0	0.50K		Lightning
Lightning struck a home's chimney. knocking off several bricks.									

Dane County 2 NNE Marxville	25	0920CST			0	0			Hail(1.00)
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Dane County Middleton	25	0940CST			0	0	50K		Thunderstorm Wind (EG56)
Trees and power lines were damaged. Stucco at the Wisconsin Trade Center was also damaged									

Jefferson County 2 SSE Ft Atkinson	25	0940CST			0	0			Hail(0.75)
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Dane County 4 SE Stoughton	25	1027CST			0	0			Hail(0.75)
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Sauk County Sauk City	25	1040CST			0	0	25K		Lightning
Lightning struck a home, resulting in a minor fire.									

Rock County Newville	25	1042CST			0	0			Hail(0.75)
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Racine County 4 SSE Burlington	25	1253CST			0	0			Hail(0.75)
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Walworth County Fontana	25	1335CST			0	0			Hail(1.00)
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Walworth County 2 SE Lyons	25	1345CST			0	0			Hail(0.75)
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Rock County Beloit	25	1400CST			0	0	5K		Lightning
Lightning hit a tree which then fell onto a house causing around 5,000 dollars in damage.									

A low pressure system tracked across southern Wisconsin and generated more thunderstorms from the morning through most of the afternoon. Moderate instability and shear allowed for storms to organize enough to reach severe criteria and produce large hail and damaging winds.

Rock County 1.4 S Shopiere	26	1733CST	0.1	20	0	0	2K		Tornado (F0)
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A brief tornado spun up 1.4 miles due south of Shopiere, or about 3.8 miles west-southwest of Clinton, very near the intersection of Hart Road and Butterfly Road. It resulted in some minor corn crop damage and tree damage, and was observed by 3 spotters. This very weak tornado spun up on a wind shift boundary that extended from near Racine to near Beloit. Showers and isolated thunderstorms developed along this boundary and produced several funnel clouds, and locally heavy rains. The tornado apparently developed from the ground up since there wasn't any mesocyclone evidence on the WSR-88D Doppler radar. Atmospheric wind shear profiles were not supportive of rotating updrafts in thunderstorms.



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WISCONSIN, Southeast